	Application No.	Applicant(s)	_
	10/667,009	GILMARTIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	HIEU T. HOANG	2452	
	HIEU I. HOANG	2432	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	re
1. \boxtimes This communication is responsive to <u>communication filed</u> of	on 02/12/2009.		
2. The allowed claim(s) is/are 11, 16-29.			
 3. ☐ Acknowledgment is made of a claim for foreign priority units. a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received. e been received in Applica	ion No	
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)	5 □ Notice of	Informal Detant Application	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application Summary (PTO-413),	
 Information Disclosure Statements (PTO/SB/08), 	Paper No	o./Mail Date <u>03/31/2009</u> . 's Amendment/Comment	
Paper No./Mail Date			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner 9. ☐ Other	's Statement of Reasons for Allowance	
/Kenny S Lin/	3. <u>C</u> Ouloi	·	_
Primary Examiner, Art Unit 2452			

Application/Control Number: 10/667,009 Page 2

Art Unit: 2452

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anne D. Barry on 03/31/2009.

The claims have been amended as follows:

16. (Currently Amended) A system for providing Ethernet VLAN capacity requirement estimation, the system comprising:

a storage device storing a VLAN database;

a host system in communication with [[a]] said storage device; including a VLAN database and said host system in communication with a user system via a network, said host system including application software to implement a method comprising:

receiving a VLAN stored in said VLAN [[databases]] <u>database</u>, said VLAN including VLAN access ports, VLAN switches and VLAN trunks, wherein said VLAN access ports include VLAN bandwidth requirements and VLAN class of service and said VLAN trunks include VLAN capacity counters and VLAN threshold parameters;

receiving a target access port via said network, said target access port including a target class of service and a target bandwidth requirement from a requestor using said user system;

determining a target trunk and target switch corresponding to said target access port, wherein said target trunk corresponds to one of said VLAN trunks and said target switch corresponds to one of said VLAN switches;

calculating a bandwidth contribution of said target access port to said VLAN, said calculating responsive to said VLAN trunks, said VLAN switches, said VLAN access ports, and said target access port; and

transmitting said bandwidth contribution via said network to said requestor;
wherein said calculating the bandwidth contribution of said target access port to
said VLAN includes:

splitting said VLAN into two portions based on the location of said VLAN switches relative to said target trunk, wherein one portion includes said target access port and is an access port side and the other portion is a non-access port side;

calculating a current access port side bandwidth requirement responsive to said VLAN;

calculating a potential access port side bandwidth requirement responsive to said VLAN and to said target access port;

calculating a current non-access port bandwidth requirement responsive to said VLAN; and

Art Unit: 2452

determining said bandwidth contribution of said target access port by subtracting the minimum of said current access port side bandwidth requirement compared to said current non-access port bandwidth requirement from the minimum of said potential access port side bandwidth requirement compared to said current non-access port bandwidth requirement.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 11, 16-29 are allowed. The prior art of record does not teach the claimed invention, as follows.

For each of independent claims 11, 16 and 20, the prior art does not teach or render obvious the followings:

"calculating a bandwidth contribution of said target access port to said VLAN includes: splitting said VLAN into two portions based on the location of said VLAN switches relative to said target trunk, wherein one portion includes said target access port and is an access port side and the other portion is a non-access port side; calculating a current access port side bandwidth requirement responsive to said VLAN; calculating a potential access port side bandwidth requirement responsive to said VLAN and to said target access port; calculating a current non-access port bandwidth requirement responsive to said VLAN; and determining said bandwidth contribution of said target access port by subtracting the minimum of said current access port side bandwidth requirement compared to said current non-access port

bandwidth requirement from the minimum of said potential access port side bandwidth requirement compared to said current non-access port bandwidth requirement".

The claimed limitations above provides a method/system for VLAN capacity requirement estimation, wherein a bandwidth contribution of a target access port is calculated based on a least contribution algorithm to reflect an impact of provisioning an access port with respect to a trunk capacity, taking into account bandwidth of the port, class of service of the VLAN and placement of the port within the VLAN.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is included in form PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

Application/Control Number: 10/667,009

Art Unit: 2452

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HH

/Kenny S Lin/

Primary Examiner, Art Unit 2452